

PHENIX Technical Support 2006

PHENIX WEEKLY PLANNING

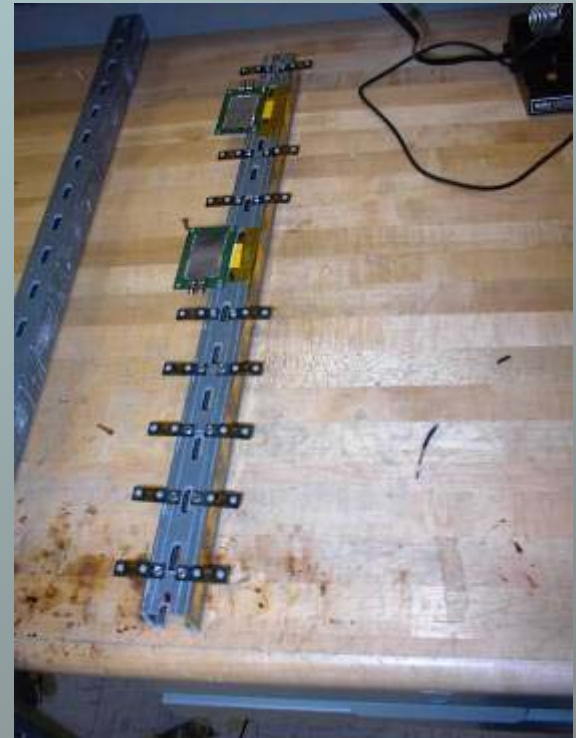
3/02/06

Don Lynch



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BLM Test



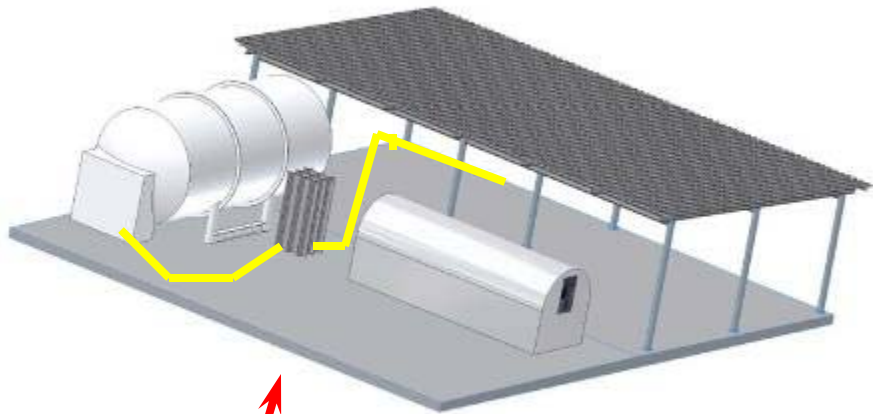


BLM Test Istallation

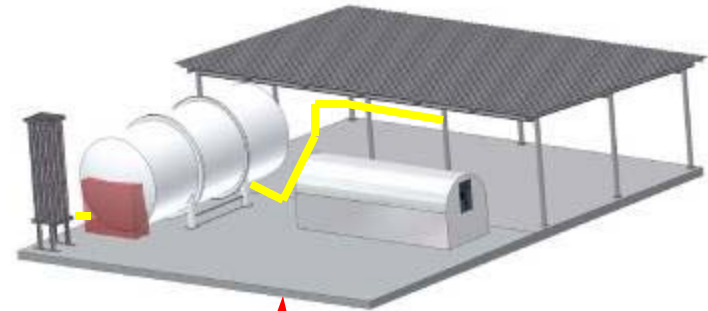


He Bags

LN₂ Storage Dewar for BBC



Original Plan



As Installed

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LN₂ Storage Dewar for BBC



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LN₂ Storage Dewar for BBC



LN₂ Storage Dewar for BBC Remaining Tasks



Protection for Vacuum port



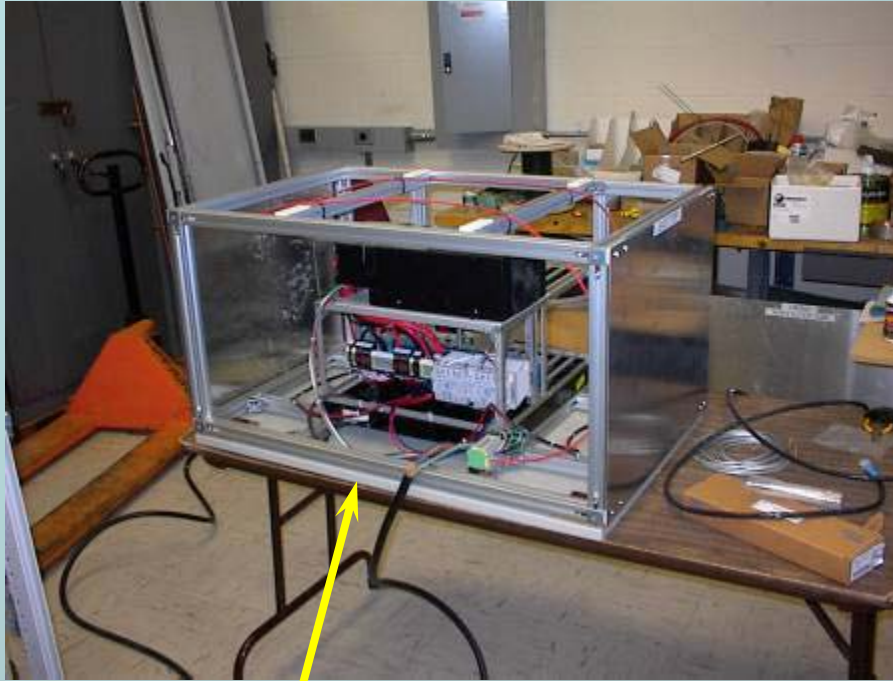
Plumb in LN₂ Controls



Valve off existing dry
air supply to BBC
leaving switch valve to
allow using dry air in
future if necessary
(e.g. maintenance of
LN₂ supply)

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MPC



MPC Electronics enclosure built waiting for cards, work permit for crane is in place. Expect to install in next access day



Location for MPC electronics on top of center crate on eyebrow

Next Access Day

- Expect next access day (8 hrs) to be March 22
- Expect shorter controlled accesses before then
- Subsystems must arrange for tech assistance prior to access day or don't expect assistance. (see Don Lynch or John Haggerty)
- PHENIX Techs only on CM lift platform unless accompanied by PHENIX
- Planned:
 - MPC electronics installation
 - HBD Prep?
 -

Other Projects

TOF West

- Expect detectors to be at BNL by May 1.

HBD

- Will need new He bags?
- Install prototype late March/early April
- Plan for installation of $\frac{1}{2}$ final detector late May/early June
- Need to design & fabricate cable support structure for prototype and final design

MPC North

- New enclosure & fixture design to be based on lessons learned from south installation

RXNP

- Tests complete waiting for design info for support structure

Muon RPC

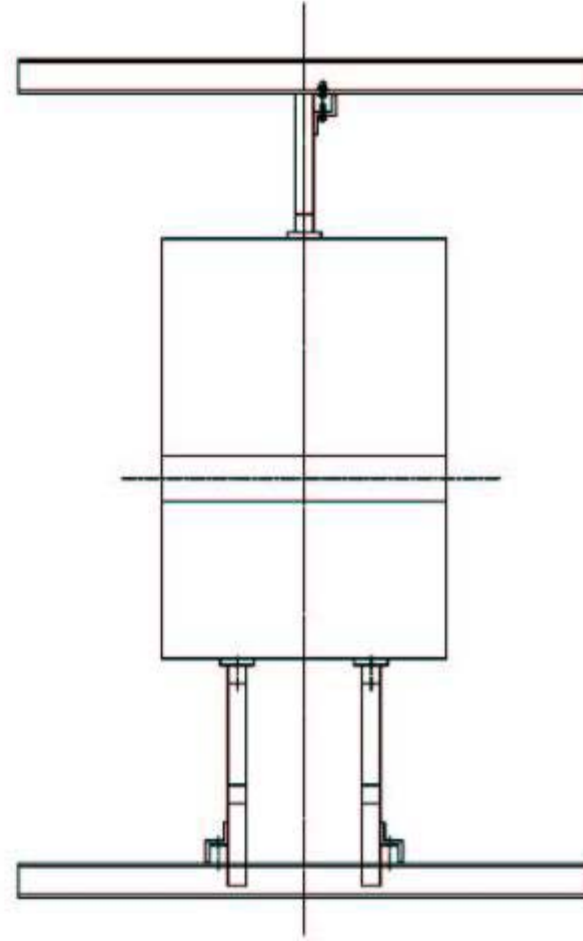
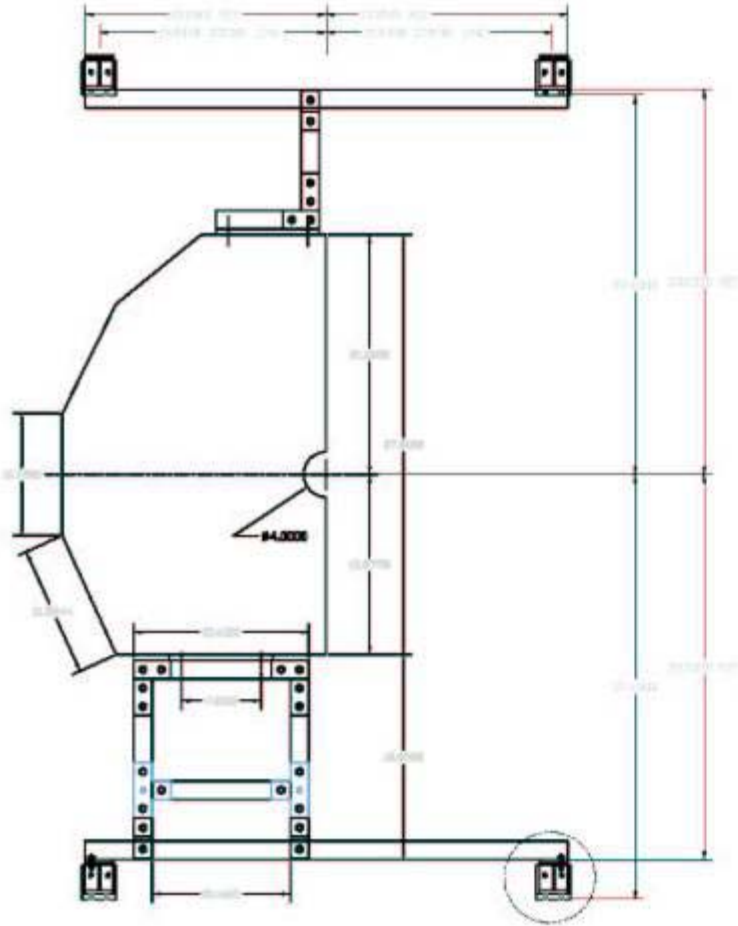
- Waiting for design info

Engineering Documentation

- Documentation/Drawings data base with web based retrieval
- 3D model at detector outline level with utility envelopes
- utility schematics

Beampipe design

HBD Prototype Mounting

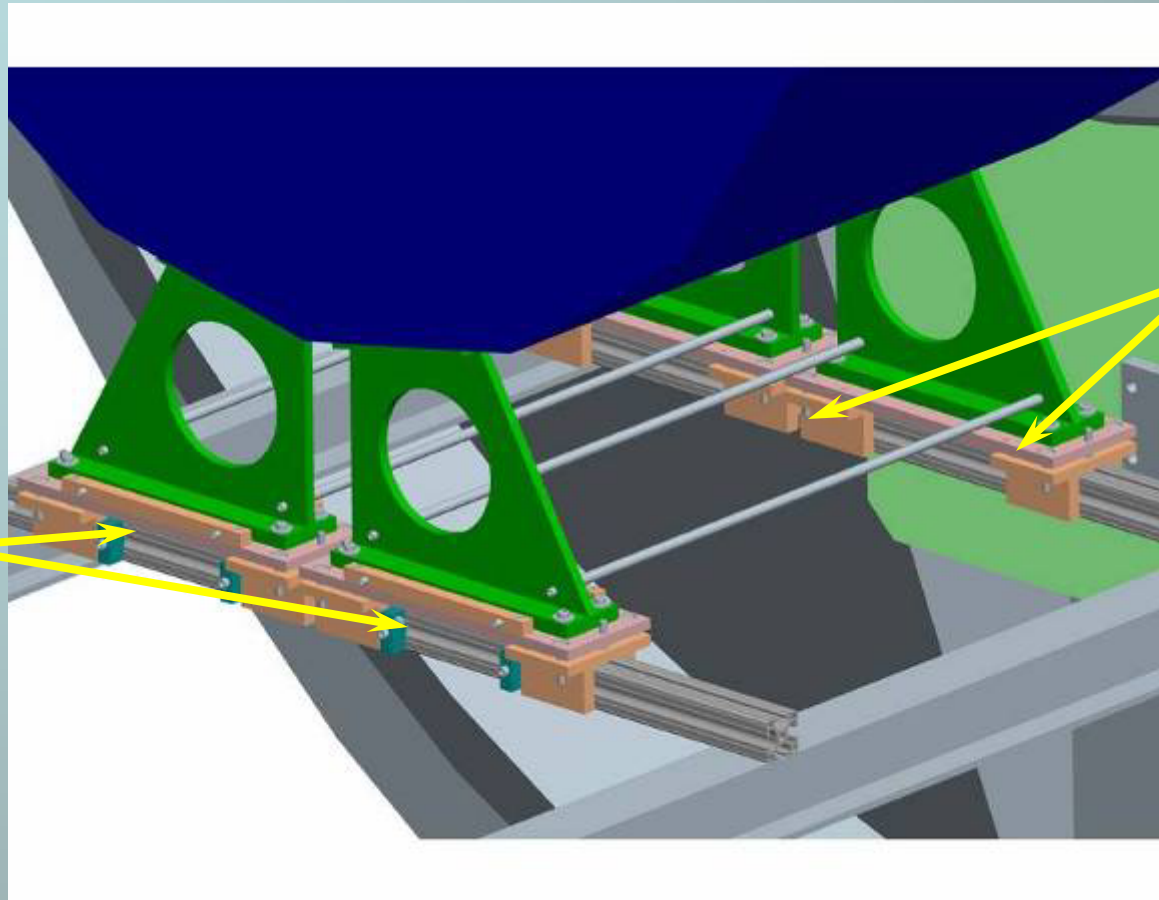


Prototype can not use final design mounting due to differences in location of connectors and other basic design differences.

Final HBD design is not yet fixed.

Prototype mounting to be fabricated from fg unistrut.

HBD Mechanical Support

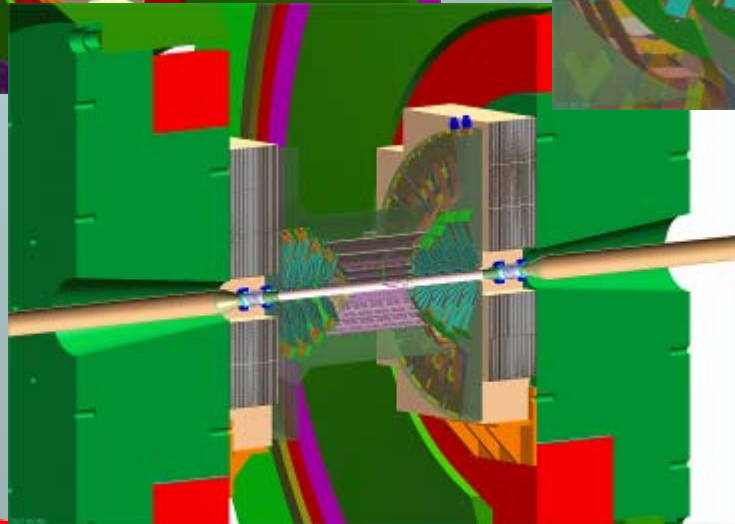
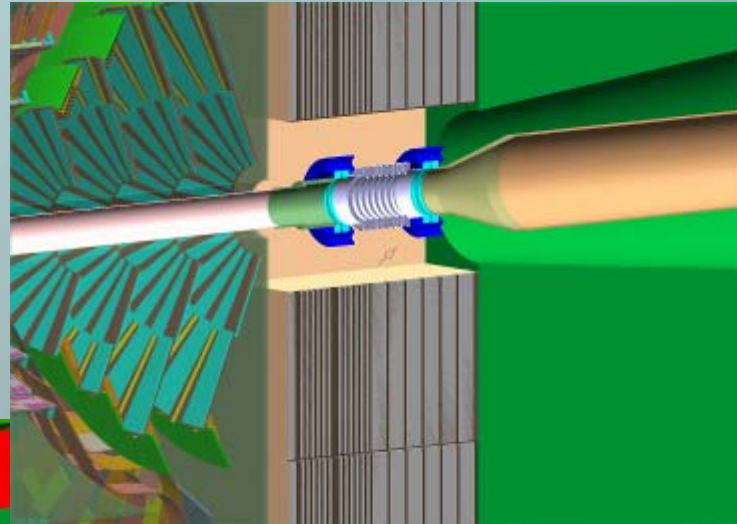
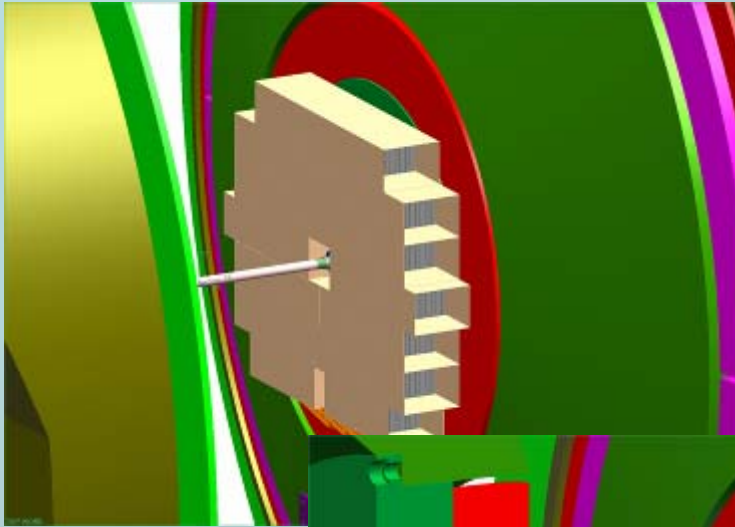


HBD Support
X, Y, Z
adjustments on
this side

HBD Support
X, Y
adjustments on
this side

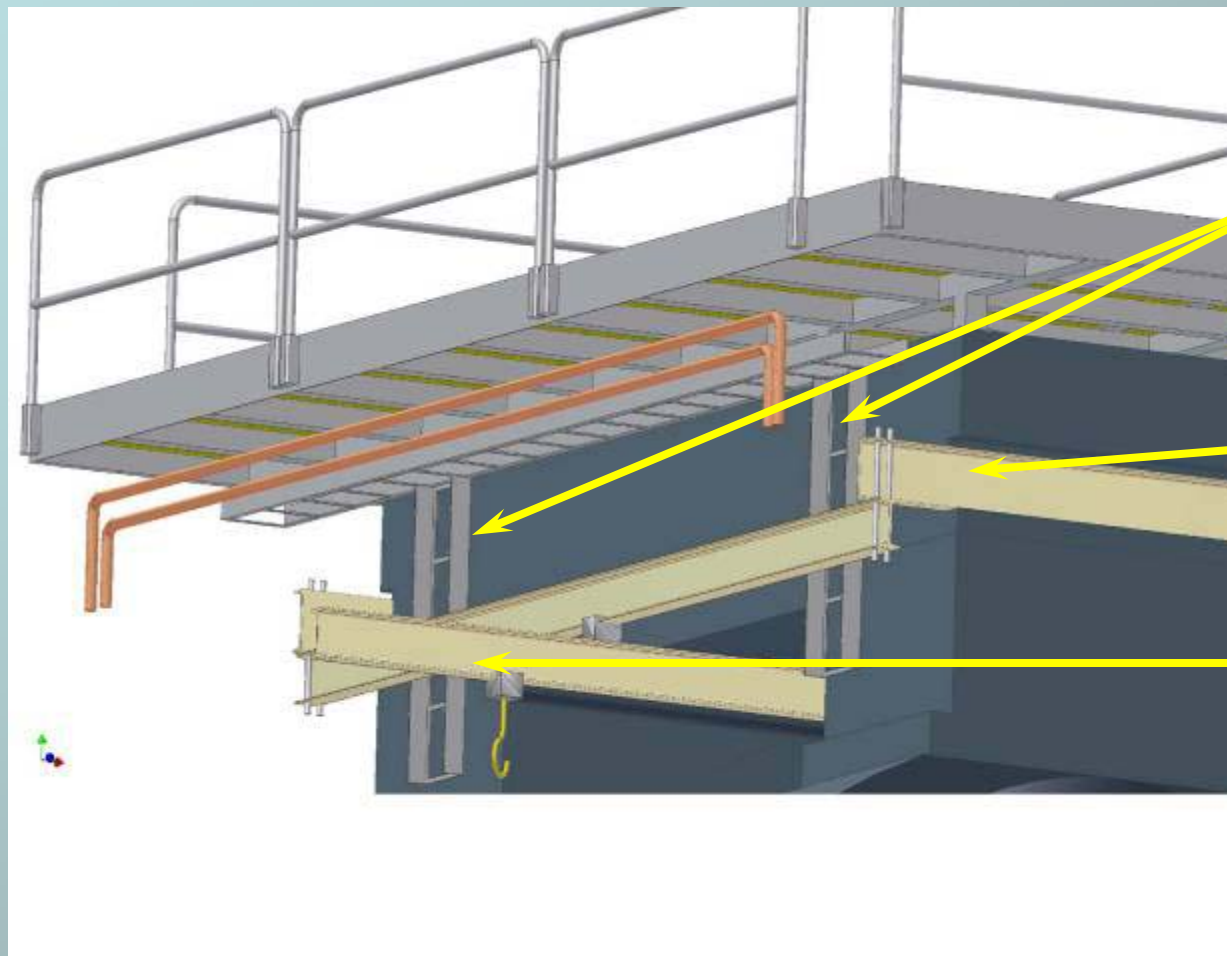
*Design of details
complete ready
for fabrication.
Last minute
changes to HBD
mounting interface
to be addressed
before routing
drawings to shops
for fabrication.*

New Beampipe for Upgrades



A concept discussed between Jan Boissevain of LANL and D. Lynch of BNL. Requires support built in to NCC and temporary isolating support to move CM.

CM Region Crane & Cable Routing Concept



**Cable Trays
to route
cables NCC
Detector from
Bridge**

**Crane Supports
use existing flux
return notches**

**CM Crane north-
south & east-west
motions; extended
travel east to
existing crane
coverage**

CM Region Stairs



Something a little more substantial would be nice

Current Tasks

- General run support
- New storage trailer (as promised by Charlie)
- Fix roof leaks

Tasks for Shutdown 2006

- Install access platforms from EC top north and MMS
- Replace emergency fan louvres
- Rewire/add IR ceiling lights on emergency power
- Replace WC sliding platform hoisting cables
- Analyze/balance rack water distribution
- Mixing house exhaust fan maintenance

We expect a short shutdown with a full plate of work

- June '06: end run 5, prep for start of shutdown, prep EC for move to AH
- July '06: TOF West installation, RXNP installation
- Aug. '06: MPC North installation, HBD installation
- ~~Sep. '06~~: Detector subsystems maintenance, roll EC in, prep for run 6

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PHENIX Engineering & Tech Support Web Pages

Links for weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found from the web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

